AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) A stream data processing apparatus for performing multiple processing steps-of during a processing-for of stream data, said stream data processing apparatus comprising:

a transmitting-end processing section for performing a <u>process processing step</u>, of one of the <u>said</u> multiple <u>processing</u> steps, of processing for data contained in the stream data, and transmitting the processed data;

a receiving-end processing section for receiving the processed data transmitted from-the said transmitting-end processing section, for receiving empty data, and for performing-a another processing-process step, of a next one of-the said multiple processing steps, of processing for the received data;

a control section for <u>transmitting a change signal</u>, instructing a change of a subject of processing, to <u>the said</u> transmitting-end processing section and <u>the to said</u> receiving-end processing section;

a data temporary storage section for temporarily storing the <u>processed</u> data transmitted from-the <u>said</u> transmitting-end processing section;

an empty data storage section for erasing any data written thereto in response to a data write, and <u>for</u> returning empty data in response to a data read; and

a connection management section for allowing the <u>processed</u> data transmitted from-the <u>said</u> transmitting-end processing section <u>and empty data</u> to be received by the <u>said</u> receiving-end processing section, <u>via said data temporary storage section and said empty data</u> storage section, respectively, by performing a the data write to and a the data read for the from <u>said</u> data temporary storage section and the <u>said</u> empty data storage section, wherein:

wherein,

said control section, said transmitting-end processing section, said receiving-end processing section, and said connection management section are interconnected and configured such that, if a change signal-change of the subject of processing is instructed is transmitted from the said control section, the (i) to said transmitting-end processing section, said transmitting-end processing section is operable to output a transmitting-end clear request to said connection management section, and the (ii) to said receiving-end processing section, said receiving-end

<u>processing section is operable to</u> output a transmitting end clear request and a receiving end clear request, respectively, to the said connection management section, and; and

the said connection management section-switches is operable to switch both (i) a write destination for the processed data transmitted from the said transmitting-end processing section, and (ii) a read source of any data, including the processed data transmitted from said transmitting-end processing section and empty data returned from said empty data storage section, to be received by the said receiving-end processing section, between said data temporary storage section and said empty data storage section, depending on whether the said connection management section is in (i) a normal operation state, (ii) a receiving-end clear wait state which exists after the transmitting-end clear request is received by said connection management section, or (iii) a transmitting-end clear wait state which exists after the receiving-end clear request is received by said connection management section, or (iii) a transmitting-end clear wait state which exists after the receiving-end clear request is received by said connection management section and until the transmitting-end clear request is received by said connection management section and until the transmitting-end clear request is received by said connection management section.

Claim 2 (Currently Amended) The stream data processing apparatus according to claim 1, wherein-the said connection management section is operable to:

select-the <u>said</u> data temporary storage section as the write destination and the read source <u>when said connection management section is</u> in the normal operation state;

erase the <u>processed</u> data stored in-the <u>said</u> data temporary storage section if the transmitting-end clear request or the receiving-end clear request is received <u>when said</u> <u>connection management section is in the normal operation state;</u>

select-the <u>said</u> empty data storage section as the read source <u>when said connection</u> <u>management section is</u> in the receiving-end clear wait state; and

select the said empty data storage section as the write destination when said connection management section is in the transmitting-end clear wait state.

Claim 3 (Currently Amended) The stream data processing apparatus according to claim 1, wherein-the said connection management section is operable to:

select-the <u>said</u> data temporary storage section as the write destination and the read source <u>when said connection management section is</u> in the normal operation state;

erase the <u>processed</u> data stored in-the <u>said</u> data temporary storage section if the receiving-end clear request is received <u>when said connection management section is</u> in the normal operation state;

select-the <u>said</u> empty data storage section as the write destination <u>when said</u> <u>connection management section is</u> in the transmitting-end clear wait state;

wherein, when said connection management section is in the receiving-end clear wait state said connection management section is operable to:[[,]]

regard_designate as old data any data-that is stored in-the_said data temporary storage section when the transmitting-end clear request has been received;[[,]] select, as the write destination, a region in-the_said data temporary storage section where the old data is not stored;[[,]]-and

select, as the read source, a region in the said data temporary storage section where the old data is stored while the old data is present;[[,]] and

select-the said empty data storage section as the read source once the old data is no longer present; and

erase the old data if the receiving-end clear request is received when said connection management section is in the receiving-end clear wait state.

Claim 4 (Currently Amended) The stream data processing apparatus according to claim 1, wherein-the said transmitting-end processing section and the said receiving-end processing section output are operable to output the transmitting-end clear request and the receiving-end clear request, respectively, and perform transmission and reception of any data by using a data transmission/reception transmission section and a data reception section, respectively, which provides a an accessing function to the said connection management section.

Claim 5 (Currently Amended) The stream data processing apparatus according to claim 1, wherein-the said connection management section is operable to select-structured to be capable of selecting, if the any data transmitted from the said transmitting-end processing section cannot be written to the said data temporary storage section, whether to (i) perform a process of immediately notifying an error to the said transmitting-end processing section, or (ii) perform a process of waiting until it becomes possible to write any data to the said data temporary storage

section and <u>perform a process of notifying to the said</u> transmitting-end processing section a result of writing <u>any</u> data to the <u>said</u> data temporary storage section.

Claim 6 (Currently Amended) The stream data processing apparatus according to claim 1, wherein the said connection management section is operable to select structured to be capable of selecting, if any data to be received by the said receiving-end processing section cannot be read from the said data temporary storage section, whether to (i) perform a process of immediately notifying transmitting an error to the said receiving-end processing section, or (ii) perform a process of waiting until it becomes possible to read any data from the said data temporary storage section and perform a process of notifying to the said receiving-end processing section a result of reading any data from the said data temporary storage section.

Claim 7 (Currently Amended) The stream data processing apparatus according to claim 1, further comprising a data input section via which to input for receiving the stream data as an input.

Claim 8 (Currently Amended) The stream data processing apparatus according to claim 7, wherein-the said data input section is operable to receive the input of inputs the stream data from a removable recording medium.

Claim 9 (Currently Amended) The stream data processing apparatus according to claim 1, further comprising a data output section for outputting the stream of data as a result of performing the multiple processing steps of processing for the stream data.

Claim 10 (Currently Amended) The stream data processing apparatus according to claim 9, wherein-the said data output section is operable to output outputs, to a removable recording medium, the result of performing the multiple processing steps of processing to a removable recording medium.

Claim 11 (New) The stream data processing apparatus according to claim 1, wherein said transmitting-end processing section and said receiving-end processing section are operable to

output the transmitting-end clear request and the receiving-end clear request, respectively, independent of one another.